

October 29, 2020

United States Environmental Protection Agency Sam Nunn Atlanta Federal Center 61 Forsyth Street, SW Atlanta, Georgia 30303-8960

Attention: Mr. Wesley Hardegree

Re: Land Use Control Plan (Revision 1.0)

SMA 4 – Former Chemical Plant

Administrative Order on Consent - Docket # RCRA 04-2012-4255

Bluestone Coke

4200 F.L. Shuttlesworth Drive

Birmingham, Jefferson County, Alabama

USEPA ID No. ALD 000 828 848

Terracon Project No. E1187219

Dear Mr. Hardegree:

On behalf of Bluestone Coke, LLC (Bluestone Coke), Terracon Consultants, Inc. (Terracon) is pleased to submit the *Land Use Control Plan for SMA 4 - Former Chemical Plant* for the above-referenced site. This plan has been prepared in response to the *Remedy for Former Chemical Plant and Former Pig Iron Foundry* letter from the USEPA dated February 23, 2018.

If you should have any questions, please do not hesitate to contact us at (205) 942-1289.

Sincerely,

Terrell W Principal Geologist

Frank M. Nowicki

Senior Project Professional

Frank M. Howicki

cc: Ms. Meredith Anderson; USEPA Region 4

Terracon Consultants, Inc. 2147 Riverchase Office Road Birmingham, Alabama 35244 P [205] 942 1289 F [205] 443 5302 terracon.com

Bluestone Coke 4200 F.L. Shuttlesworth Drive Birmingham, Alabama US EPA ID No. ALD 000 828 848

October 29, 2020 Terracon Project No. E1187219



Prepared for:



Birmingham, Alabama

Prepared by:

Terracon Consultants, Inc. Birmingham, Alabama

terracon.com

lerracon

Environmental Facilities Geotechnical Materials



October 29, 2020

Bluestone Coke 4200 F.L. Shuttlesworth Drive Birmingham, Alabama 35207

Attention: Mr. Don Wiggins

Re: Land Use Control Plan (Revision 1.0)

SMA 4 – Former Chemical Plant

Administrative Order on Consent - Docket # RCRA 04-2012-4255

Bluestone Coke

4200 F.L. Shuttlesworth Drive

Birmingham, Jefferson County, Alabama

USEPA ID No. ALD 000 828 848

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Dear Mr. Wiggins:

Terracon Consultants, Inc. (Terracon) is pleased to submit this *Land Use Control Plan for SMA 4 – Former Chemical Plant* for the above-referenced site.

Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,

Terracon Consultants, Inc.

Frank M. Nowicki

Senior Project Professional

Frank M. Howicki

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Bluestone Coke Birmingham, Alabama

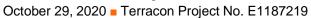




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LIST OF ABREVIATIONS

ADEM Alabama Department of Environmental Management

AOC Area of Concern

ANPR Advanced Notice of Proposed Rulemaking

CAA Corrective Action Alternative
CAO Corrective Action Objective
CAP Corrective Action Plan
CFR Code of Federal Regulation

cm/sec centimeter per second

CMI Corrective Measures Implementation

CMS Corrective Measure Study
COCs Constituents of Concern

COPC Constituent of Potential Concern
DOT Department of Transportation
ELCR Estimated Lifetime Cancer Risk

EI Environmental Indicators
ERA Ecological risk assessment
FCP Former Chemical Plant

FMC Five Mile Creek

FWI Facility Wide Investigation

GWP SSLs Groundwater Protection Site-Specific Levels

HHRA Human Health Risk Assessment
HHRE Human Health Risk Evaluation

HI Hazard Index IM Interim Measures

IRIS Integrated Risk Information System

LDA Land Disposal Area
LDR Land Disposal Restriction
LUCP Land Use Control Plan

MCL Maximum Contaminant Level

NRWQC National Recommended Water Quality Criteria

Order Administrative Order on Consent

OSHA Occupational Safety and Health Administration

PCS Preliminary Cleanup Standards

PIF Pig Iron Foundry

PPE Personal Protective Equipment PRG Preliminary Remediation Goal

PVC Poly Vinyl Chloride

RAGS Risk Assessment Guidance for Superfund RCRA Resource Conservation and Recovery Act

RCRIS RCRA Information System

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PCS Preliminary Cleanup Standards
RFI RCRA Facility Investigation
RSL Regional Screening Levels
SMA SWMU Management Area

SSL Soil screening level

SVOC Semi-volatile Organic Compound SWMU Solid Waste Management Unit

TCL Target Constituent List

TCLP Toxicity Characteristic Leaching Procedure

TSD Treatment, Storage, And Disposal

UCL Upper Confidence Limit

USEPA United States Environmental Protection Agency

VOC Volatile Organic Compounds

Land Use Control Plan (Revision 1.0) SMA 4 – Former Chemical Plant Bluestone Coke 4200 F.L. Shuttlesworth Drive Birmingham, Alabama US EPA ID No. ALD 000 828 848

Project No. E1187219 October 29, 2020

1.0 INTRODUCTION/PURPOSE

The Bluestone Coke, LLC (Bluestone Coke) facility is located at 4200 F.L. Shuttlesworth Drive in Birmingham, Jefferson County, Alabama (Figure 1-1). This Land Use Control Plan (LUCP) for SMA 4 has been prepared in response to the *Final (Remedy) Decision for the Former Chemical Plant* from the United States Environmental Protection Agency (US EPA) dated February 2018. A map of the current facility including the 45 Solid Waste Management Units (SWMUs) and six Areas of Concern (AOCs) consolidated into five Solid Waste Management Areas (SMAs) is included as Figure 1-2. This LUCP is only for SMA 4– Former Chemical Plant and its associated SWMUs and AOCs (Figure 1-3).

Table 1-1 below lists the twelve SWMUs and two AOCs (Figure 1-3) that make up SMA 4.

| Table 1-1. List of SWMUs and AOC in SMA 4 | | | | |
|--|--|--|--|--|
| SWMU 26 – Main Process Building | | | | |
| SWMU 27 – Floor Drain System | | | | |
| SWMU 28 – Sulfonation Floor Drain | | | | |
| SWMU 29 – Product Tank Containment Area | | | | |
| SWMU 30 – Centrifuge Waste Water Tank | | | | |
| SWMU 31 – Monohydrate Floor Drain and Sump | | | | |
| SWMU 32 – Drum Storage Area | | | | |
| SWMU 33 – Plant Drum Storage Area | | | | |
| SWMU 34 – Wastewater Neutralization System | | | | |
| SWMU 35 – Mineral Wool Piles | | | | |
| SWMU 36 – Used Oil Tank | | | | |
| SWMU 42 – Former Above Ground Storage Tanks (ASTs) | | | | |
| AOC B – Drainage Ditch next to Shuttlesworth Drive and 35 th Avenue | | | | |
| AOC D – Former Chemical Plant (FCP) Groundwater Plume | | | | |

1.1 Background

The roots of the facility can be traced back to 1881 when Sloss-Sheffield Steel and Iron Company first began producing pig iron in Birmingham, Alabama. In 1920, where Bluestone Coke sits today, Sloss-Sheffield Steel and Iron Company built two modern coke oven batteries to serve its own needs as well as those of other customers. As Birmingham's steel industry grew, so did the

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need for furnace coke, which prompted the construction of three more batteries at the site during the 1950s.

As American industry evolved in the ensuing years, so did the operation of the facility. Today, Bluestone Coke is a highly efficient, technologically advanced operation serving a variety of customers in the furnace and foundry markets.

The operation now consists of three batteries with a total of 120 coke ovens which produce approximately 460,000 tons of coke each year. A highly experienced operating staff provides assurance of adherence to strict operating, environmental, and safety standards.

The original coke manufacturing facility began operation in 1920 as Sloss Sheffield Steel and Iron Company. Beginning in 1952, the company experienced a series of corporate reorganizations and several name changes culminating in a name change to Walter Coke, Inc. in June 2009, and then the purchase of the coke plant assets forming Bluestone Coke, LLC occurring in August 2019. The following operations have occurred at the facility:

- The biological treatment facility (BTF), designed to treat wastewater generated at the facility, was constructed in 1973-74, first received wastewater in 1975 and is still in operation today. SMA 1 includes the BTF Process Area.
- Land Disposal Areas (LDAs) have been used at various times over the life of the facility. Biological sludge, blast furnace sludge, and construction and demolition debris have been placed in the land disposal areas. SMA 2 includes the LDA.
- Coke manufacturing has occurred since 1920, and 120 coke ovens continue to operate. SMA 3 includes the Coke Manufacturing Plant.
- Chemical manufacturing began at the facility in 1948, and all chemical manufacturing operations ceased in 2002. In addition, a mineral wool plant, which manufactured mineral fiber used in the production of ceiling tile and insulating products, was built in late 1947 and was decommissioned in 2010. SMA 4 includes the FCP and the mineral wool piles.
- An iron blast furnace that produced pig iron from iron ore began operation in 1958; blast furnace operations ceased in 1981, and the blast furnace was decommissioned in 1984. SMA 5 includes the Former Pig Iron Foundry (FPIF).

The land around the Bluestone Coke facility is zoned for industrial and residential use, and a significant number of other industrial facilities remain operational in the area. Before 1957, the area was primarily industrial, with a significant number of other facilities, including coke and cement manufacturing plants, pipe manufacturing plants, and limestone quarry operations.

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Residential neighborhoods were constructed on properties in the area of Bluestone Coke only after 1957 (USEPA, 1990). The most likely future land use for the Bluestone Coke facility is industrial.

A RCRA Section 3008(h) Administrative Order on Consent (the "2012 Order") with the effective date of September 24, 2012, was signed by Walter Coke and the USEPA. In 2016, ERP contractually assumed the RCRA Order obligation of Walter Coke through bankruptcy proceedings and the RCRA Section 3008(h) Administrative Order on Consent (the "2016 Order") was reissued and modified to reflect the name change to ERP Compliant Coke, LLC and was signed by ERP Compliant Coke, LLC and the USEPA. The objectives of the 2016 Order remained the same as previously outlined in the 2012 order. The 2012 Order declared that all of the approved investigation tasks of the RFI Work Plans required by the 1989 Order had been completed by Walter Coke and that the 1989 Order was terminated and no longer in effect. In the 2012 Order, there are 45 SWMUs, 6 AOCs, and 5 SMAs at the facility (Figure 2) listed. ERP Coke changed its name to Bluestone Coke in October 2019, after an ownership change in August 2019.

1.2 Corrective Measures Study (CMS) Overview

The Corrective Measures Study (CMS) SMA-4 – Former Chemical Plant (Revision 1.1) on April 14, 2017. The purpose of the CMS Report was to summarize the evaluation, analysis, and selection of appropriate corrective measures at SMA 4.

Based on the activities conducted during the CMS for SMA-4, it was determined that:

- COCs exceeded an Estimated Lifetime Cancer Risk (ELCR) of 10-6 and an HI of 0.1 in soil and groundwater.
- For the construction worker scenario and industrial worker scenario, the cumulative risk across all media is greater than an ELCR of 10-4 and an HI of 1.0.
- For the construction worker scenario and industrial worker scenario, the cumulative risk for subsurface soil exceeds an HI of 1.0, and several constituents exceed an HQ of 0.1 for a construction worker setting.
- A comparison of soil COC concentrations for leachability to soil factors indicate certain exceedances of Groundwater Protection (GWP) Site-Specific Levels (SSLs) in subsurface soils.
- The soil contamination is deemed not to warrant corrective action based on the risk to human health being controlled by a LUCP; however, some areas where soil COCs exceed the GWP SSLs are recommended for remediation.
- Active groundwater remediation is also recommended.

Based on these conclusions and a detailed analysis that was performed individually and collectively with respect to the five alternatives, Alternative 5 - Land Use Controls + In-Situ Soil

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Source Area Treatment + Groundwater Removal and Treatment + Groundwater Monitoring is recommended as the corrective action alternative for SMA 4.

The *Final (Remedy) Decision for the Former Chemical Plant* from the USEPA dated February 2018 indicated that they concurred with the recommendations from the CMS for SMA 4.

The recommended remedy found in the facility's April 14, 2017, Corrective Measure Study Report and proposed to the public on October 1, 2017, is identified as Alternative 5: Land Use Controls + In-Situ Soil Source Area Treatment + Groundwater Removal and Treatment + Groundwater Monitoring. This alternative can reasonably be concluded to satisfy all of the Facility-Specific Corrective Action Objectives found in Table 3 of the CMS; therefore, it is EPA's Final Decision that Alternative 5, which consists of the following components, be the remedy for the Former Chemical Plant.

- Land Use Controls: Land use controls are administrative means to protect current and future human exposure to unacceptable environmental contamination. This protection will be accomplished through the following techniques/components:
 - Land Use Control Plan (LUCP) developed by the Facility (and overseen by the USEPA)
 - An Environmental Covenant secured under the Alabama Uniform Environmental Covenants Act, Ala. Code §§ 35-19-1 to 35-19-14 (2007 Cum. Supp.).
- In-Situ Soil Source Area Treatment/In-Situ Groundwater Treatment: Chemicals, bacteria (e.g., zero valent iron, yeast extract, micronutrients, potassium permanganate, etc.), or steam will be used with the purpose of helping prevent any further release of contaminants from the soil to the groundwater and aiding in advancing the groundwater remediation. Bench scale studies will need to be conducted to determine the appropriate chemicals or bacteria to be used, the concentrations, locations, etc.
- Groundwater Removal and Treatment: The hydraulic control well network, which was installed under Interim Measures in 2013 to control the VOC groundwater plume and currently consists of 6 extraction wells, will continue. The recovered groundwater will be used as process water for the coke plant and will eventually cycle to the Facility's Biological Treatment Facility (BTF) for subsequent discharge in compliance with the Facility's NPDES Permit.
- Groundwater Monitoring: Long-term groundwater monitoring will occur to assess the effectiveness of the overall remediation system.

The following sections describe the objectives and implementation mechanisms for the LUCP.

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2.0 LAND USE CONTROLS AND OBJECTIVES

Bluestone Coke maintains responsibility for implementing, enforcing, reporting on, and maintaining land use controls as specified in the following sections.

2.1 Land Use Control Objectives

The objectives of the land use controls as listed in Table 3 of The *Final (Remedy) Decision for the Former Chemical Plant* from the US EPA dated February 2018 are as follows:

- Maintain in perpetuity, land use as industrial, a setting that has been found to be protective for the detected soil concentrations.
- Ensure that industrial/commercial workers, construction workers, and trespassers are not exposed to unacceptable levels of soil contaminants.

2.2 Land Use Controls

2.2.1 Environmental Covenant and Land Use Restrictions

In order to implement deed restrictions as listed in the remedy decision, an Environmental Covenant was drafted in accordance with the Uniform Environmental Covenants Act (ADEM Admin Code r.335-5) and was provided to the USEPA and ADEM prior to recording. The Environmental Covenant includes a survey and legal description for SMA-4 and lists the following land-use restrictions:

- No land use shall occur on the Property other than commercial or industrial land uses;
- No water or groundwater on, from or under the Property (other than piped water from the local public water authority) shall be used for potable or irrigation purposes.

The covenant was recorded at the Jefferson County Probate Court in accordance with the Uniform Environmental Covenants Act (ADEM Admin. Code r.335-5) on October 29, 2019. A copy of the recorded Class I Environmental Covenant is included as Appendix A.

2.2.2 Access Restrictions

Unauthorized access to SMA-4 is restricted through the use of physical barriers. The facility including SMA-4 is completely fenced, and the facility is manned twenty-four hours a day, 365 days a year. Additionally, trespasser warning signs are posted in various locations along the fence.

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2.2.3 Dig Permitting

Due to elevated concentrations of Constituents of Concern (COCs) present in soils in the southernmost portion of SMA-4, an internal dig permit application will be submitted within 3 days prior to any intrusive activities in the affected area of SMA-4 (Figure 1-3). The Dig Permit application (Appendix B) will include a description of the intrusive activity and location, a procedure to limit worker exposure to contaminated media in SMA-4, and PPE to be utilized. The permit will be reviewed and signed by an authorized representative of the company and the facility program point-of-contact designated responsible for implementing the LUCP. The permit will remain valid for 45 days from the approved activity date as listed in the permit, after which the Dig Permit will require renewal. Approved Dig Permits will be reported in the annual inspection and used to evaluate the effectiveness of the remedy.

2.2.4 Personal Protective Equipment

Any employee or subcontractor that may cone into physical contact with contaminated environmental media (greater than one working week per year) shall proceed in **LEVEL D** personal protective equipment consisting of:

- Standard Work Uniform
- Hard Hat
- Chemically Resistant Safety Footwear or Safety Footwear with disposable outer covers
- Nitrile, Neoprene Rubber or Silver Shield Outer Gloves
- Nitrile Glove Liners
- Safety Eye Wear (ANSI Z-87 approved)

If an employee or subcontractor wished, they may also conduct activities in **LEVEL D Modified** personal protective equipment to include:

- Standard Work Uniform
- Hard Hat
- Chemically Protective Safety Boots (Hazmax, other as approved by S&H Mgr.)
- Nitrile, Neoprene Rubber or Silver Shield Outer Gloves
- Nitrile Glove Liners
- Safety Eye Wear (ANSI Z-87 approved)
- Tychem 9400 Chemically protective suits (or equivalent)

If elevated organic vapor concentrations and saturated soils are encountered, employees or subcontractors will upgrade to **LEVEL C** personal protective equipment consisting of:

- Full Face Air Purifying Respirator
- Equipped with Combination HEPA/Organic Vapor Cartridges

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It is not anticipated that Level A or Level B protective Equipment will be needed for any intrusive activities to be conducted on the site; however, if additional information becomes available or monitoring indicated it is necessary to use Level A or level B protective equipment, work will cease, and EPA and ADEM will be contacted prior to proceeding.

2.2.5 On-Site Compliance Monitoring

Monitoring of the environmental use restrictions and controls will be conducted annually by Bluestone Coke. The annual inspection form is included as Appendix C. The annual field inspection report will be certified by an authorized representative of the company and submitted to the USEPA and ADEM within 30 days of certification.

The annual inspection report, submitted to the USEPA and ADEM by Bluestone Coke, will evaluate the status of the institutional controls (ICs) and how any IC deficiencies or inconsistent uses have been addressed. Any deficiencies of land use controls or activities inconsistent with use restrictions, as noted in the annual field inspection report, will be addressed by Bluestone Coke as soon as practicable, but in no case will the process be initiated later than ten days after Bluestone Coke becomes aware of the breach. Additionally, Bluestone Coke will notify the USEPA and ADEM regarding how Bluestone Coke has addressed or will address the breach within 10 days of sending the USEPA and ADEM notification of the breach.

2.2.6 Notification Procedures

Bluestone Coke will notify the USEPA and ADEM 45 days in advance of any proposed land use changes that are inconsistent with land use control objectives or the selected remedy.

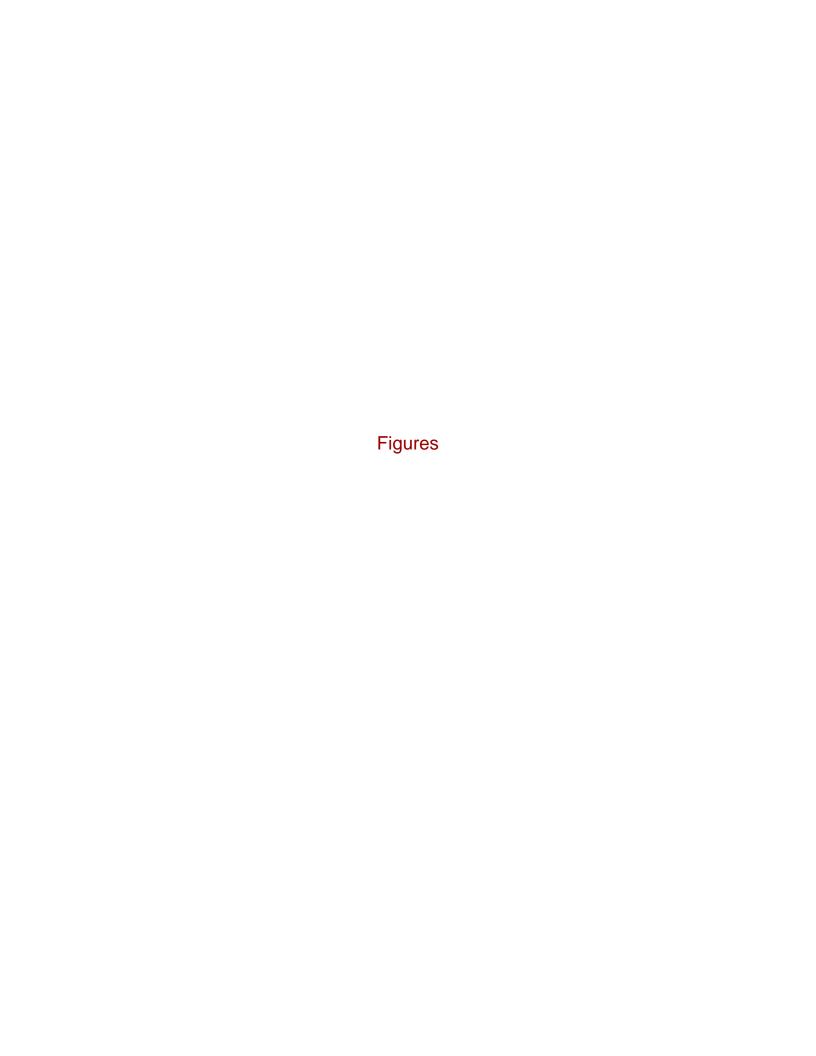
When possible given the timing of the transfer or sale process, Bluestone Coke will provide notice to the USEPA and ADEM at least six (6) months prior to any transfer or sale of SMA-4 so that the USEPA and ADEM can be involved in discussions to ensure that appropriate provisions are included in the transfer terms or conveyance documents to maintain effective ICs. If it is not possible for the facility to notify the USEPA and ADEM at least six (6) months prior to any transfer or sale, then the facility will notify the USEPA and ADEM as soon as possible, but no later than 30 days prior to the transfer or sale of any property subject to ICs.

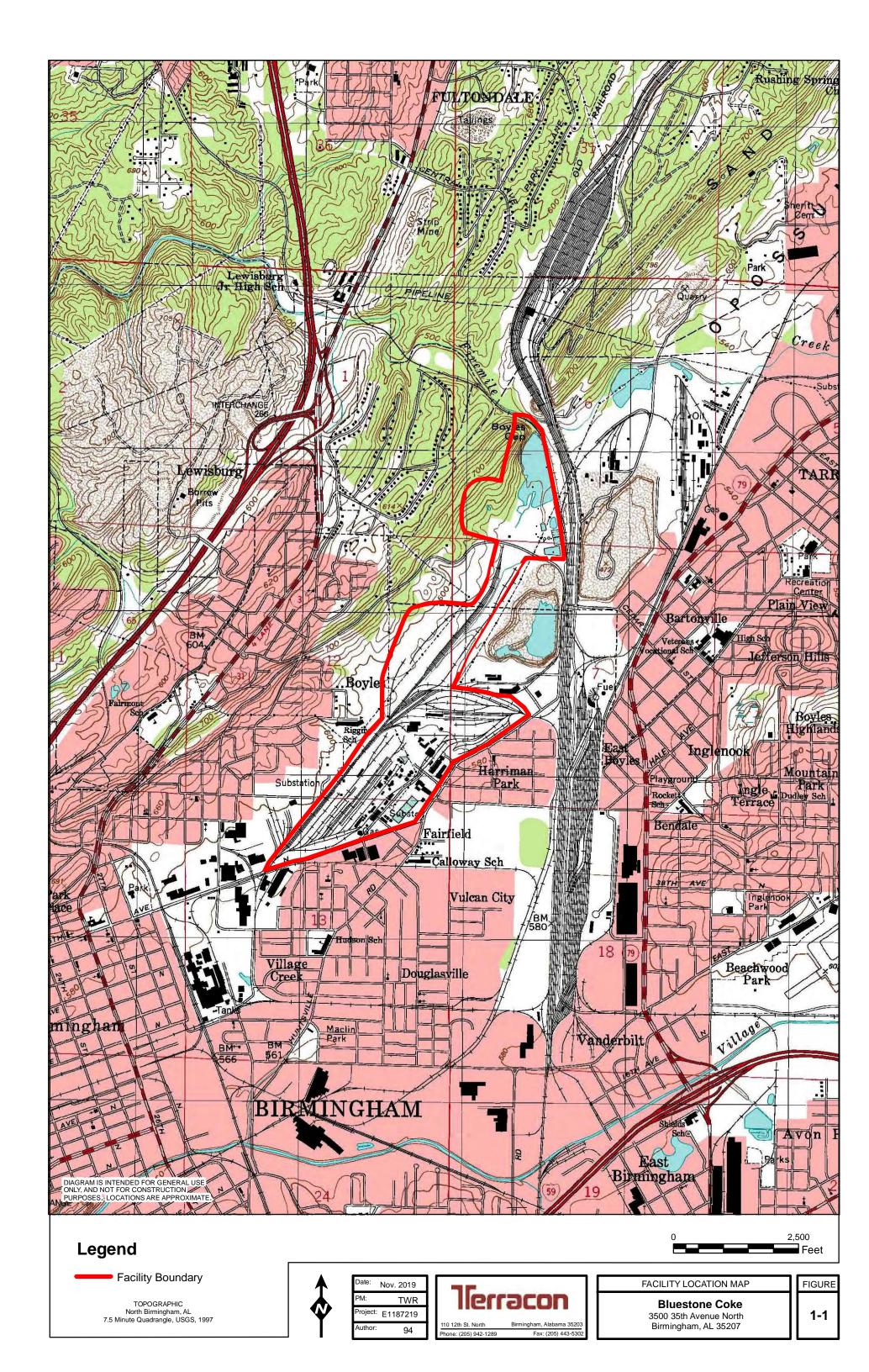
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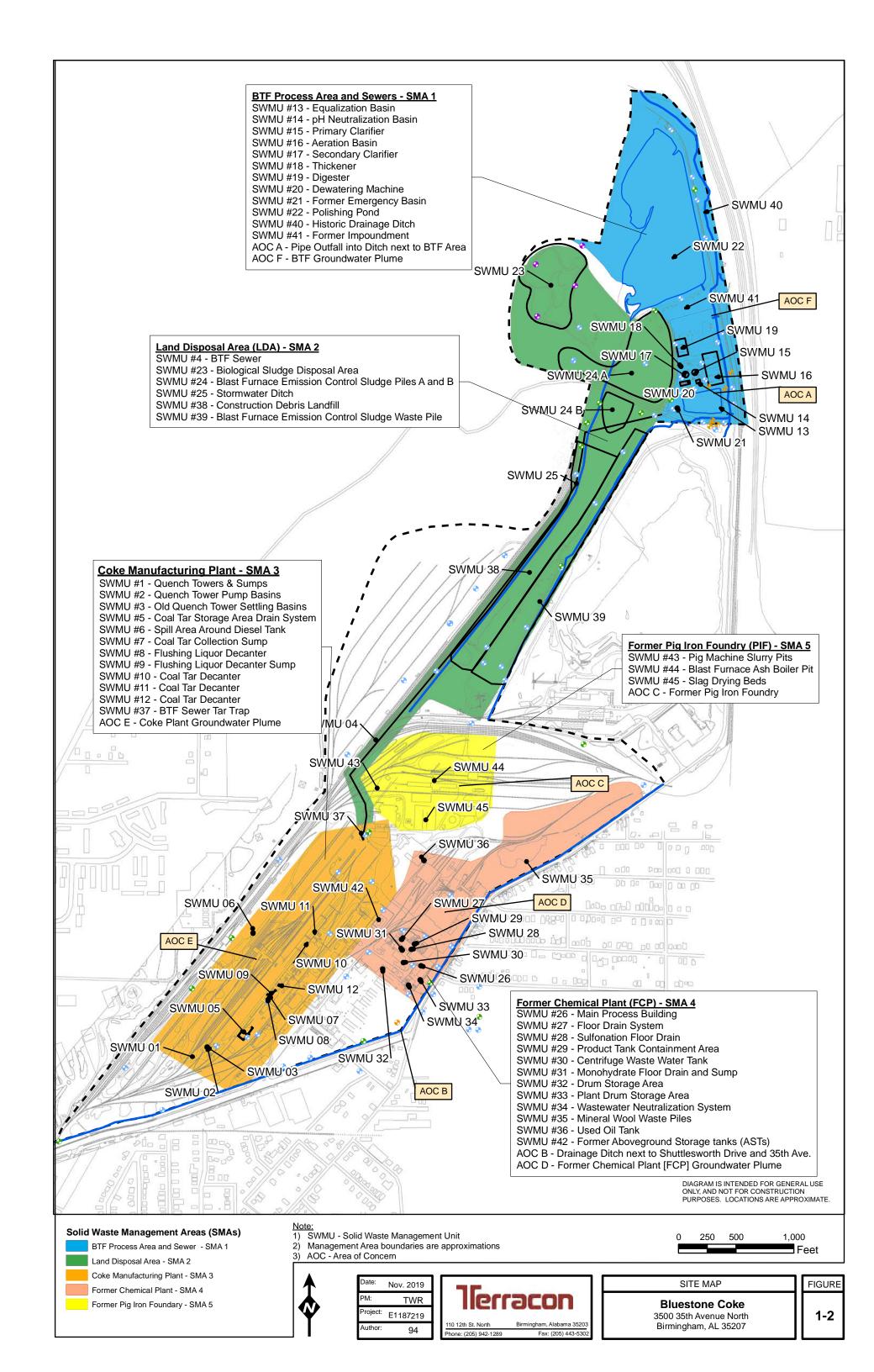


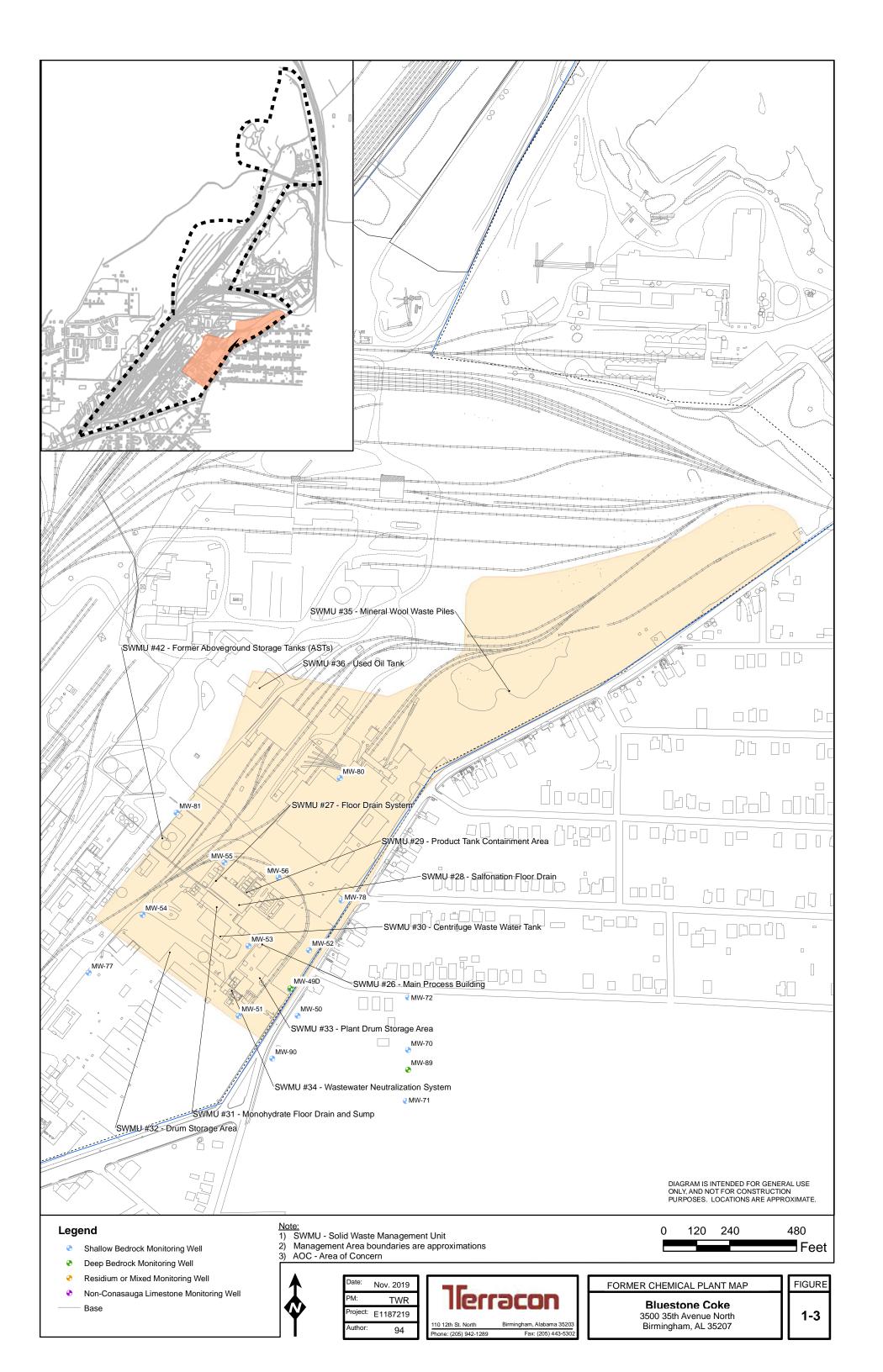
3.0 DURATION OF LAND USE CONTROLS AND CONCURRENCE

This LUCP was designed in accordance with the *Final (Remedy) Decision for the Former Chemical Plant* from the US EPA dated February 2018. Bluestone Coke retains responsibility for implementing, maintaining, reporting on, and enforcing the land use controls. The controls will be maintained until the concentration of hazardous substances in the soil are at such levels to allow for unrestricted use and exposure. Bluestone Coke shall not terminate or modify Land Use Controls, implementation actions, or modify land use without approval by the USEPA and ADEM. Bluestone Coke shall seek prior concurrence before any anticipated action that may disrupt the effectiveness of the land use controls or any action that may alter or negate the need for land use controls. Any re-evaluation of deed restrictions or Land Use Controls will be documented for the Administrative Record.









Appendix A Class I Environmental Covenant

County Division Code: AL040 Inst. # 2019112740 Pages: 1 of 15 I certify this instrument filed on 10/28/2019 12:45 PM Doc: REST Alan L.King, Judge of Probate Jefferson County, AL. Rec: \$58.00

Clerk: MORRISL

ENVIRONMENTAL COVENANT

ERP Compliant Coke, LLC (hereinafter "Grantor") grants an Environmental Covenant (hereinafter "Covenant") this 26 day of ________, 2019, to the following entities pursuant to The Alabama Uniform Environmental Covenants Act, Ala. Code §§ 35-19-1 to 35-19-14 (2014 Cum. Supp.) (hereinafter "the Act" or "Act"), and the regulations promulgated thereunder: the Alabama Department of Environmental Management (ADEM) and the identified holders and other applicable parties: ERP Compliant Coke (hereafter "Holder").

WHEREAS, this instrument is a Covenant developed and executed pursuant to the Act and the regulations promulgated thereunder;

WHEREAS, the Grantor is the owner of certain real property located in the City of Birmingham, Alabama, situated at 3500 35th Avenue North, in Jefferson County, Alabama, which was conveyed to Grantor by deed dated February 12, 2016, and recorded in the Office of the Judge of Probate for Jefferson County, Alabama, under Instrument number 2016022673;

WHEREAS, the real property is held by the Grantor without any interests and encumbrances;

WHEREAS, the real property is subject to enforcement by the U.S. Environmental Protection Agency ("EPA") pursuant to the Resource Conservation and Recovery Act, 42 U.S.C. § 6901, et seq., as amended ("RCRA");

WHEREAS, on July 19, 2016, EPA issued an Administrative Order on Consent, Docket Number: RCRA-04-2016-4250, to ERP Compliant Coke, pursuant to Section 3008(h) of RCRA, 42 U.S.C. § 6928(h) ("AOC");

WHEREAS, for the purposes of implementing the AOC, corrective measures at the real property has been grouped into five (5) Solid Waste Management Unit (SWMU) Management Areas (SMAs): SMA 1 - Biological Treatment Facility, SMA 2 - Land Disposal Area, SMA 3 - Coke Manufacturing Plant, SMA 4 - Former Chemical Plant, and SMA 5 - Former Pig Iron Foundry;

WHEREAS, this Covenant addresses only two (2) of the (5) SMAs: SMA 4 - Former Chemical Plant and SMA 5 - Former Pig Iron Foundry (hereafter, collectively, "Property"), which are the subject of an EPA Response to Comments/Final Decision issued on February 22, 2018, ("Final Decision");

WHEREAS, the Property is more particularly described in Exhibit A (attached) to this document;

SMA 4

A parcel of land situated in Section 12 and 13, Township 17 south, Range 3 West, and Section 7, Township 17 South, Range 2 west, Jefferson County,

Alabama, also being a part of Blocks 1, 2, and 3 of Washington Park as recorded in the Map Book 9 page 66 in the Office of the Judge of Probate in Jefferson County, Alabama and being more particularly described as follows: Commence at a 1/2" rebar at the SW corner of Lot 2A of North Birmingham Homes as recorded in Map Book 174 Page 50 in the Office of the Judge of Probate in Jefferson County, Alabama; thence N 00°02'53" E along the west line of said Lot 2A a distance of 497.73 feet to a 1/2" rebar; thence S 77°14'06" E leaving said Lot 2A a distance of 2925.61 feet to the POINT OF BEGINNING; thence S 54°08'57" E a distance of 742 feet more or less to the northwesterly right-of-way of F.L. Shuttlesworth Drive; thence N 32°17'45" E along said right-of-way a distance of 1059.73 feet to a point of curve to the right having a central angle of 29°58'38" and a radius of 312.94 feet, said curve subtended by a chord bearing N 47°17'04" E and a chord distance of 161.87 feet; thence along the arc of said curve and along said right-of-way a distance of 163.73 feet; thence N 62°16'23" E along said right-of-way a distance of 646.41 feet to a point of curve to the left having a central angle of 08°48'04" and a radius of 930.37 feet, said curve subtended by a chord bearing N 57°52'21" E and a chord distance of 142.77 feet: thence along the arc of said curve and along said right-of- way a distance of 142.91 feet; thence N 53°28'19" E along said right-of-way a distance of 700.18 feet to a point of intersection of said right-of-way and a fence; thence N 36°20'49" W leaving said right-of-way and along said fence a distance of 39 feet more or less to a fence corner; thence N 53°39'11" E along said fence a distance of 35 feet more or less to a fence corner; thence N 43°40'24" W and leaving said fence a distance of 64.70 feet to a point of curve to the left having a central angle of 45°53'11" and a radius of 102.38 feet, said curve subtended by a chord bearing N 66°36'59" W and a chord distance of 79.82 feet; thence along the arc of said curve a distance of 82.00 feet; thence N 89°33'35" W a distance of 75.64 feet to a point of curve to the left having a central angle of 31°00'26" and a radius of 161.55 feet, said curve subtended by a chord bearing S 74°56'12" W and a chord distance of 86.36 feet; thence along the arc of said curve a distance of 87.43 feet; thence S 59°26'00" W a distance of 154.58 feet to a point of curve to the right having a central angle of 16°42'24" and a radius of 549.39 feet, said curve subtended by a chord bearing S 67°47'11" W and a chord distance of 159.63 feet; thence along the arc of said curve a distance of 160.19 feet; thence S 76°08'23" W a distance of 311.27 feet; thence S 79°41'34" W a distance of 141.22 feet; thence N 89°49'30" W a distance of 146.48 feet; thence S 67°48'53" W a distance of feet; thence S 18°46'45" W a distance of 248.83 feet; thence S 26°05'28" W a distance of 91.92 feet; thence S 37°55'53" W a distance of 732.67 feet to the POINT OF BEGINNING. Said parcel of land contains 35.13 acres. more or less.

SMA₅

NO 28

A parcel of land situated in Section 12, Township 17 south, Range 3 West, and Section 7, Township 17 South, Range 2 west, Jefferson County, Alabama, and being more particularly described as follows: Commence at a 1/2" rebar at the SW corner of Lot 2A of North Birmingham Homes as recorded in Map Book 174 Page 50 in the Office of the Judge of Probate in Jefferson County, Alabama; thence N

00°02'53" E along the west line of said Lot 2A a distance of 497.73 feet to a 1/2" rebar; thence N 76°58'03" E leaving said Lot 2A a distance of 3114.75 feet to the POINT OF BEGINNING; thence 8 87°39'56" E a distance of 320.23 feet; thence 8 02°47'50" W a distance of 298.27 feet; thence S 71°44'33" E a distance of 103.03 feet; thence S 83°24'40" E a distance of 70.39 feet; thence N 26°52'01" E a distance of 108.60 feet; thence N 04°38'51" E a distance of 598.06 feet; thence N 81°01'32" W a distance of 86.78 feet; thence N 86°56'46" W a distance of 589.94 feet; thence S 70°00'11"W a distance of 254.75 feet; thence S 40°15'20" W a distance of 306.33 feet; thence S 51°39'12" W a distance of 108.54 feet; thence 8 04°13'27" E a distance of 21 .18 feet; thence S 23°48'39" E a distance of 53.84 feet; thence 8 57°09'33" E a distance of 24.76 feet; thence S 27°08'13" E a distance of 129.30 feet to the POINT OF BEGINNING. Said parcel of land contains 18.10 acres, more or less.

WHEREAS, releases of hazardous constituents, including but not limited to, polycyclic aromatic hydrocarbons (e.g., benzo(a)pyrene), and volatile organics (e.g., benzene) occurred on the Property; Specifically:

A . 2 1

SMA 4: The risk assessment limited its risk analyses to those exposures expected in an industrial setting (i.e., industrial/commercial workers and construction workers).
 Because the land use assumption in both the risk assessment and the selected remedy is that the property will remain industrial, action is needed to ensure that land use does not inadvertently and/or unknowingly become residential in the future. In addition, constituents detected in environmental media above cleanup levels for an industrial/commercial setting include, but are not limited to, the following:

| Surficial Soil Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene | Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Arsenic Chromium |
|--|---|
| Subsurface Soil Benzene Chlorobenzene | ■ Toluene ■ Benzo(a)pyrene |
| Groundwater Vinyl Chloride Methylene Chloride Cis-1,2-Dichloroethene Benzene 1,2-Dichloroethane Trichloroethene Chlorobenzene | 1,4-Dioxane 1,2,4-Trichlorobenzene 1,4-Dichlorobenzene Pentachlorophenol Naphthalene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene |

• SMA 5: Although the risk levels identified in the Baseline Risk Assessment did not exceed the levels the EPA has identified as triggering the need for remediation under current land use, the risk assessment limited its risk analyses to those exposures expected in an industrial setting (i.e., industrial/commercial workers and construction workers). Because the land use assumption in both the risk assessment and the selected remedy is that the property will remain industrial, action is needed to ensure that land use does not inadvertently and/or unknowingly become residential in the future.

on it

Based on groundwater sampling conducted around SMA 5 during previous investigations, there has been no indication that drinking water standards (aka maximum contaminant levels (MCL)) have been exceeded at SMA 5.

WHEREAS, in the Final Decision, EPA selected a corrective measure for the Property, providing in part for the following actions:

- SMA 4: In-Situ Soil Source Area Treatment/In-Situ Groundwater Treatment: Chemicals or bacteria (e.g., zero valent iron, yeast extract, micronutrients, potassium permanganate, etc.) will be used with the purpose of helping prevent any further release of contaminants from the soil to the groundwater and aiding in advancing the groundwater remediation.
- SMA 4: Groundwater Removal and Treatment: The hydraulic control well network, which was installed under an Interim Measures in 2013 to control the VOC groundwater plume and currently consists of 6 extraction wells, will continue.
- SMA 4: Groundwater Monitoring: Long-term groundwater monitoring will occur to assess the effectiveness of the overall remediation system.
- SMA 4/SMA 5: Land Use Control Plan (LUCP): A LUCP will be established to protect workers, contractors, public from exposure to contaminated environmental media.

WHEREAS, pursuant to the Final Decision and the AOC, the Grantor agreed to perform operation and maintenance activities at the Property to address the effects of the releases, which includes controlling exposure to the hazardous wastes, hazardous constituents, hazardous substances, pollutants, or contaminants;

WHEREAS, due to the releases, the exposure pathways of concern include groundwater and soil; the exposure routes of concern include inhalation, ingestion and direct contact;

WHEREAS, hazardous wastes, hazardous constituents, hazardous substances, pollutants, or other contaminants remain on the Property above levels protective for unrestricted land use (i.e., residential), industrial/commercial use without administrative

controls, and groundwater use (i.e., potable groundwater use);

WHEREAS, the Final Decision requires institutional controls to be implemented to address the effects of the releases and to protect the remedy so that exposure to the hazardous waste, hazardous constituents, hazardous substances, pollutants, or contaminants is controlled by restricting the use of the Property and the activities on the Property;

WHEREAS, the purpose of this Covenant is to ensure protection of human health and the environment by placing restrictions on the Property in accordance with the Final Decision and the AOC;

WHEREAS, further information concerning the releases and the activities to correct the effects of the releases may be obtained by contacting the Chief, RCRA Programs and Cleanup Branch EPA - Region 4, or his or her designated representative, at 61 Forsyth Street, S.W. Atlanta, Georgia, 30303; or Chief, Land Division, ADEM, or his or her designated representative, at 1400 Coliseum Boulevard, Montgomery, Alabama, 36110;

WHEREAS, the Administrative Record concerning the Property is located at:

United States Environmental Protection Agency Region 4 Atlanta Federal Center 61 Forsyth Street, SW Atlanta, Georgia 30303

NOW, THEREFORE, Grantor hereby grants this Covenant to ADEM and the identified Holders, and declares that the Property shall hereinafter be bound by, held, sold, used, improved, occupied, leased, hypothecated, encumbered, and/or conveyed subject to the following requirements set forth in Paragraphs 1 through 3 below:

1. **DEFINITIONS**

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Owner. "Owner" means the Grantor of the Property, its successors and assigns in interest.

<u>Holder</u>. The "Holder" means the Grantee of the Property, its successors and assigns in interest.

2. **USE RESTRICTIONS**

The following use restrictions apply to the Property - unless written approval is first obtained by EPA:

 The Property is hereby restricted to commercial and/or industrial land use only, as those terms are currently defined or may be

- defined in the future by deed notices/restrictions and/or zoning ordinance(s) of the City of Birmingham, County of Jefferson, or any other local government entity with jurisdiction and authority to regulate the land use at the Property.
- To control commercial and/or industrial land use exposures to known or suspected soil contamination remaining at the Property, a Land Use Control Plan (LUCP) shall be developed by the Holder and approved by EPA to protect workers, contractors, utility workers, etc. All surface or subsurface demolition, excavation, drilling, utility work or other activities shall be performed in accordance with the EPA-approved LUCP.
- Except for EPA-approved groundwater sampling, investigations or remedial (cleanup) activities, no groundwater at the Property shall be used for potable or non-potable purposes. While groundwater cleanup occurs, construction of habitable buildings directly over the groundwater plume's core footprint shall only happen after consultation with and approval from the EPA. This pre-construction review/approval is to ensure that, prior to the satisfactory completion of groundwater remediation, construction specifications (i.e., vapor intrusion mitigation strategies) are not needed to eliminate potential vapor intrusion from volatile contaminants remaining in groundwater at the time of the future construction.

3. **GENERAL PROVISIONS**

- A. Restrictions to Run with the Land. This Covenant runs with the land pursuant to Ala. Code § 35-19-5 (2014 Cum. Supp.); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to Ala. Code § 35-19-9 (2014 Cum. Supp.); is imposed upon the entire Property unless expressly stated as applicable only to a specific portion thereof; inures to the benefit of and passes with each and every portion of the Property; and binds the Grantor, the Holder, all persons using the land, all persons, their heirs, successors and assigns having any right, title or interest in the Property, or any part thereof who have subordinated those interests to this Covenant, and all persons, their heirs, successors and assigns who obtain any right, title or interest in the Property, or any part thereof after the recordation of this Covenant.
- B. Notices Required. In accordance with Ala. Code § 35-19-4(b) (2014 Cum. Supp.), the Grantor shall send written notification, pursuant to Section J, below, following transfer of a specified interest in, or concerning proposed changes in use of, applications for building permits for, or proposals for any site work affecting the contamination on, the Property. Said notification shall be sent within fifteen (15) days of each event listed in this Section.
- C. Registry/Recordation of Environmental Covenant: Amendment: or Termination. Pursuant to Ala. Code § 35-19-12(b) (2014 Cum. Supp.), this Covenant and any amendment or termination thereof, shall be contained in

ADEM's registry for environmental covenants. After an environmental covenant, amendment, or termination is filed in the registry, a notice of the covenant, amendment, or termination may be recorded in the land records in lieu of recording the entire covenant in compliance with § 35-19-12(b). Grantor shall be responsible for filing the Environmental Covenant within thirty (30) days of the final required signature upon this Environmental Covenant.

- D. <u>Compliance Certification</u>. In accordance with <u>Ala. Code</u> § 35-19-4(b) (2014 Cum. Supp.), the Grantor shall submit an annual report to the Chief of the EPA RCRA Programs and Cleanup Branch and the Chief of the ADEM Land Division, on the anniversary of the date this Covenant was signed by the Grantor. Said report shall detail the Grantor's compliance, and any lack of compliance, with the terms of the Covenant.
- E. <u>Right of Access</u>. The Grantor hereby grants EPA, ADEM; EPA and ADEM's agents, contractors and employees; the Grantor's agents, contractors and employees; and any Holders the right of access to the Property for implementation or enforcement of this Covenant.
- F. <u>EPA Reservations</u>. Notwithstanding any other provision of this Covenant, EPA retains all of its access authorities and rights, as well as all of its rights to require additional land/water use restrictions, including enforcement authorities related thereto, under RCRA and any other applicable statute or regulation.
- G. <u>Representations and Warranties</u>. Grantor hereby represents and warrants to the other signatories hereto:
 - That the Grantor has the power and authority to enter into this Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
 - ii) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
 - iii) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Covenant;
 - iv) That this Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document, or instrument to which Grantor is a party, by which Grantor may be bound or affected;
 - v) That this Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property;

- vi) That this Covenant does not authorize a use of the Property which is otherwise prohibited by a recorded instrument that has priority over the Covenant.
- H. Compliance Enforcement. In accordance with Ala. Code § 35-19-11(b) (2014 Cum. Supp.), the terms of the Covenant may be enforced by the parties to this Covenant; any person to whom this Covenant expressly grants power to enforce; any person whose interest in the real property or whose collateral or liability may be affected by the alleged violation of the Covenant; or a municipality or other unit of local government in which the real property subject to the Covenant is located, in accordance with applicable law. The parties hereto expressly agree that EPA or ADEM has the power to enforce this Covenant. Failure to timely enforce compliance with this Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any noncompliance. Nothing in this Covenant shall restrict EPA, ADEM, or the Grantor, from exercising any authority under applicable law.
- 1. <u>Modifications/Termination</u>. Any modifications or terminations to this Covenant must be made in accordance with Ala. Code §§ 35-19-9 and 35-19-10 (2014 Cum. Supp.).
- J. Notices. Any document or communication required to be sent pursuant to the terms of this Covenant shall be sent to the following persons:

EPA

1987 B

Chief, RCRA Programs and Cleanup Branch US EPA Region 4 61 Forsyth Street, SW Atlanta, GA 30303

<u>ADEM</u>

Chief, Land Division Alabama Department of Environmental Management 1400 Coliseum Boulevard Montgomery, AL 36110

Grantor/Holder

ERP Compliant Coke, LLC 3500 35th Avenue North Birmingham, Alabama 35207

Attn: Don Wiggins

K. No Property Interest Created in EPA or ADEM. This Covenant does not in any way create any interest by EPA or ADEM in the Property that is subject to the Covenant. Furthermore, the act of approving this Covenant does not in any way create any interest by EPA or ADEM in the Property in accordance with Ala. Code § 35-19-3(b) (2014 Cum. Supp.).

10 July 1

- L. <u>Severability</u>. If any provision of this Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.
- M. **Governing Law**. This Covenant shall be governed by and interpreted in accordance with the laws of the State of Alabama.
- N. <u>Recordation</u>. In accordance with <u>Ala. Code</u> § 35-19-8(a) (2014 Cum. Supp.), Grantor shall record this Covenant and any amendment or termination of the Covenant in every county in which any portion of the real property subject to this Covenant is located. Grantor agrees to record this Covenant within fifteen (15) days after the date of the final required signature upon this Covenant.
- O. <u>Effective Date</u>. The effective date of this Covenant shall be the date upon which the fully executed Covenant has been recorded, in accordance with <u>Ala. Code</u> § 35-19-8(a) (2014 Cum. Supp.).
- P. <u>Distribution of Environmental Covenant</u>. Within fifteen (15) days of filing this Covenant, the Grantor shall distribute a recorded and date stamped copy of the recorded Covenant in accordance with <u>Ala. Code</u> § 35-19-7(a) (2014 Cum. Supp.). However, the validity of this Covenant will not be affected by the failure to provide a copy of the Covenant as provided herein.
- Q. <u>ADEM References</u>. All references to ADEM shall include successor agencies, departments, divisions, or other successor entities.
- R. <u>EPA References</u>. All references to EPA shall include successor agencies, departments, divisions, or other successor entities.
- S. <u>Grantor References</u>. All references to the Grantor shall include successor agencies, departments, divisions, or other successor entities.

Grantor has caused this Environmental Covenant to be executed pursuant to The Alabama Uniform Environmental Covenants Act, on this <u>Alabama</u> day of <u>July</u>, 2019.

IN TESTIMONY WHEREOF, the parties have hereunto set their hands this the day and year first above written.

GRANTOR/HOLDER

| GRANTORNOLDER |
|--|
| This Environmental Covenant is hereby approved by ERP Compliant Coke, LLC Alabama this <u>26</u> day of, 2019. |
| By: ERP Compliant Coke, LLC By: Name: Bill Potter Title: VP and General Manager |
| Grantor |
| STATE OF <u>Alabama</u>) COUNTY OF <u>Jefferson</u>) |
| |
| I, <u>Pamela R. Travis</u> , a <u>Notary Public</u> in and for said County in said State or Commonwealth, hereby certify that Bill Potter whose name as VP and General Manager of ERP Compliant Coke, LLC [Grantor] is signed to the foregoing conveyance and who is |

I, <u>Yamela R. Travis</u>, a <u>Notary Public</u> in and for said County in said State or Commonwealth, hereby certify that Bill Potter whose name as VP and General Manager of ERP Compliant Coke, LLC [Grantor] is signed to the foregoing conveyance and who is known to me, acknowledged before me on this day that, being informed of the contents of the conveyance, (s)he, as such officer and with full authority executed the same voluntarily for and as the act of said corporation.

Given under my hand this the 26th day of July, 2019

Notary Public: Pamela R. Trams

My Commission Expires:

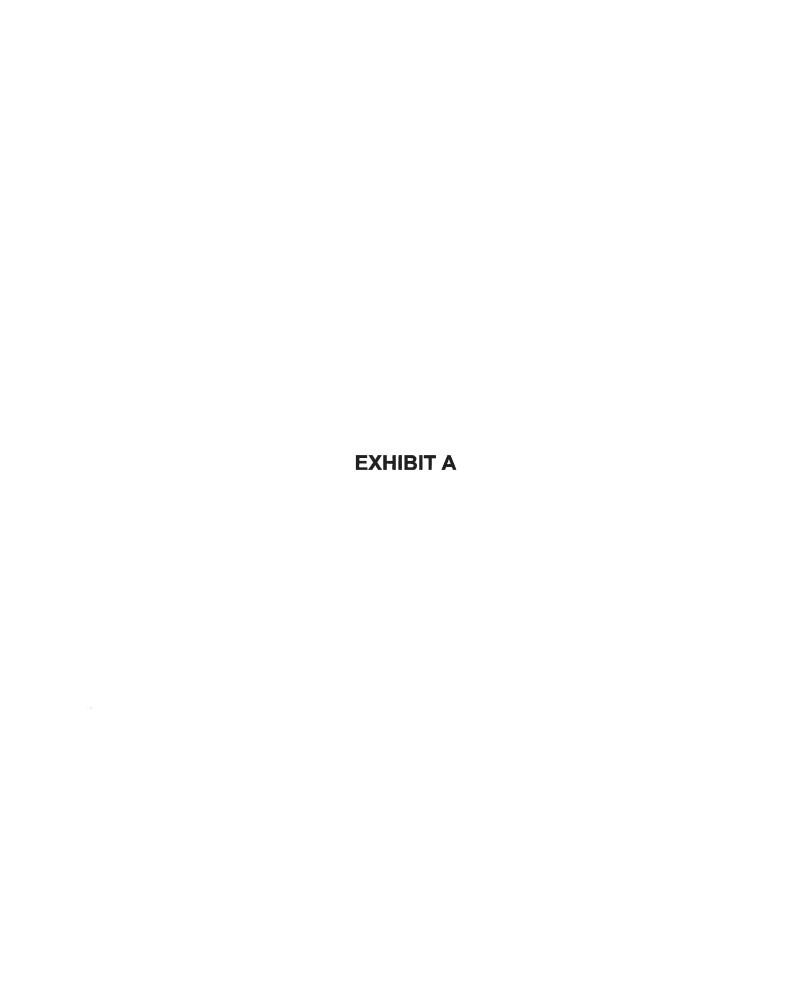
PAMELA R. TRAVIS
My Commission Expires
September 26, 2020

U.S. ENVIRONMENTAL PROTECTION AGENCY

| Carol J. Monell Carol J. Monell Director, Land, Chemicals and Redevelopm EPA Region 4 | Date ent Division |
|--|---|
| | |
| | |
| State of Georgia) | |
| County of Fulton) ss: | |
| Environmental Protection Agency, Region 4 | igned authority in and for the said county and 2019, within my jurisdiction, the within named is the Director, LCRD, of the U.S., and that in said representative capacity, she nt, after first having been duly authorized so to |
| My commission expires: | PLIC |
| January 17, 2022 | |

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

| This Environmental Covenant is hereby approved by the State of Alabama this 15th day of October, 2019. By: | | | | |
|---|--|--|--|--|
| Stephen Cobb Chief, Land Division Alabama Department of Environmental Management | | | | |
| State of Alabama} | | | | |
| Montgomery, County} | | | | |
| I, the undersigned Notary Public in and for said County and State, hereby certify that Stephen Cobb, whose name as Chief, Land Division, Alabama Department of Environmental Management is signed to the foregoing conveyance, and who is known to me, acknowledged before me on this day that, being informed of the contents of the conveyance, he approved the same voluntarily on the day the same bears date and with full authority to do so. | | | | |
| Given under my hand and official seal this 5 day of October, 2019 | | | | |
| Notary Public | | | | |
| My Commission Expires: 1-30=23 | | | | |



150 BISHOP CIRCLE, SUITE 300 PELHAM, AL 35124 TEL - (205) 403-9178 TEL 4 300

ECTION 12 AND 13, TOWNSHIP 17 SOUTH, RANGE 2 3 WEST, AND SECTION 7, 17 SOUTH, PANGE 2 WEST SETTERS ON COUNTY, A SAMMA

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SECTION 12 AND 13, TOWNSHIP 17 SOUTH, RANGE 2 3 WEST, AND SECTION 7, 17 SOUTH, RANGE 2 MEST, AND SECTION 7, 17 SOUTH, RANGE 2 TRE

120 BISHOP CIRCLE, SUITE 300 PELHAM, AL 35124 TEL - (205) 403-9175 FAX - (205) 403-9175

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REVISIONS

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DISTANCE BAS: LEMBOOD

Appendix B SMA-4 Dig Permit



BLUESTONE COKE SMA - 4 DIG PERMIT

3500 35th Avenue North Birmingham, Alabama 35207

| APPLICANT NAME: | | | | |
|------------------------------------|--|--|--|--|
| | | | | |
| DESCRIPTION OF INTRUSIVE ACTIVITY: | | | | |
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LOCATION OF INTRUSIVE ACTIVITY (Illustrate location in the image below):





| LIST START DATE FOR INTRUSIVE ACTIVITIES |
|--|
| LIST NUMBER OF DAYS REQUIRED FOR INTRUSIVE ACTIVITIES (Limit one working week per calendar year) |
| IF ADDITIONAL WORKING DAYS ARE ANTICIPATED BEYOND LISTED LIMIT, SELECT PERSONAL PROTECTIVE EQUIPMENT TO BE UTILIZED <i>OR</i> DESCRIBE PROCEDURES TO ROTATE/ALTERNATE FIELD PERSONNEL AND STAFF TO MAINTAIN LISTED LIMIT. |
| PERSONAL PROTECTIVE EQUIPMENT |
| □ Standard Work Uniform □ Hard Hat □ Chemically Resistant Safety Footwear or Safety Footwear with disposable outer covers □ Nitrile, Neoprene Rubber or Silver Shield Outer Gloves □ Nitrile Glove Liners □ Safety Eye Wear (ANSI Z-87 approved) □ Tychem 9400 Chemically protective suits □ Full Face Air Purifying Respirator Equipped with Combination HEPA/Organic Vapor Cartridges |
| FIELD PERSONNEL ROTATION PROCEDURE |
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| EQUIPMENT DESCRIPTION AND DECONTAMINATION PROTOCOL: | | | | | |
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| SMA- 4 DIG PERMIT AP | PLICANT CERTIFICATION | | | | |
| The information submitted h | nerein, to the best of my knowle | edge and belief, is true, accurate, and complete | | | |
| Name: | | | | | |
| Signature: | | Date: | | | |
| | | I | | | |
| | INTERNAL USE | | | | |
| | INTERNAL USE | ONLY | | | |
| Reviewed by (Name and Title) | | | | | |
| | | | | | |
| Signature: | | Date: | | | |
| Comments: | | | | | |
| | | | | | |
| ☐ Permit Approved | ☐ Permit Denied | ☐ Additional Information Requested | | | |

APPROVED PERMITS VALID FOR 45 DAYS AFTER LISTED ACTIVITY START DATE

Appendix C
Land Use Control Annual Inspection Form



LAND USE CONTROL ANNUAL INSPECTION FORM

SMA 4- Former Chemical Plant

| Na | me of Inspector: |
|-----------------|---|
| Da | ate of Inspection: |
| Ve (In | art I erification of Land Use Controls dicate with ✓ if listed land use control is being accomplished. Note deficiencies in space provided low.) |
| 0 | Verify no residential land use is occurring on property |
| 0 | Verify no water or groundwater on, from, or under the Property (other than piped water from the local public water authority) is used for potable or irrigation purposes |
| 0 | Verify boundary fence is intact and in good condition |
| 0 | Verify trespasser warning signs are intact and in good condition |
| | escribe Deficiencies to Current/Existing Land Use Controls se space below to describe deficiency, location, and corrective action) |
| Int Ha De | art II crusive Activities ave intrusive activities occurred in SMA-4 in the past year? (yes/no) escribe Intrusive Activities se space below to describe intrusive activity and location) |
| | |



| | it application submitted and | | | | |
|---|---------------------------------|-----------------------|-------------------|--|--|
| (yes/no) | (if yes, include signed cop | ies of SMA-4 Dig Perm | iit to tnis form) | | |
| Describe any Deficiencies to Intrusive Activities/ Dig Permit (Use space below to describe deficiency and corrective action) | | | | | |
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| Describe Any Needed Expansion (s) Beyond the Current/Existing Land Use Controls | | | | | |
| (Use space below to propose/describe any newly discovered or previously unknown contamination encountered that might not be adequately be addressed by the existing LUCP) | | | | | |
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| Certification of Inspe | ction | | | | |
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| | ed herein, to the best of my kr | • | · | | |
| Name and Title: | | | | | |
| Signature: | | Dat | re: | | |
| Name of Designated Officia | ıl: | | | | |
| Signature: | | Dat | te: | | |